

Residential Energy Additional Measure Selection – 2017 ORSC

City of Medford Building Safety Department

200 S. Ivy St. 2nd Floor Medford, OR 97501

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		E-mail: <u>building@cityotmedfol</u>
RESIDENTIA	L INFORMATION	
Date:	Building permit number:	
Applicant's Name:	Signature:	
Job address:		
City:	State:	_ ZIP:
INST	RUCTIONS	
Please select type of construction below; sign, d with your permit application or your project will provided.		
New construction. All conditioned spaces within rand two additional measures (one numbered and	· ·	1 1
Additions. Additions to existing buildings or structure structure comply if the new additions comply with the	•	
Large additions. Additions that are equal to or more area or 600 square feet (55 m ²) in area, whichever is (N1101.3.1) (Note: You must select one numbered are	less, must comply with Tabl	
Small additions. Additions that are less than 40 per than 600 square feet in area, whichever is less, must comply with Table N1101.3 below. (N1101.3.2)	ŭ	
Exception: Additions that are less than 15 percent (18.58 m²) in area, whichever is less, are not required to comply		·

Note: N1101.2.3 change of occupancy or use. Definition of "Change of use" for purposes of Section N1101.2.3 is a change of use in an existing residential building and shall include any of the following: any unconditioned spaces such as an attached garage, basement, porch, or canopy that are to become conditioned spaces; any unconditioned, inhabitable space that is to become conditioned space, such as a large attic.

N1101.2.3.1 Change of use. See Section.

N1101.2.3.2 Change of occupancy. See Section

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				BLE N1101.3 – SMALL ADDITION ADDITIONAL MEASURES (SELECT ONE)				
	<u> </u>	1	Increase the ceiling insulation of the existing portion of the home as specified in Table N1101.2.					
	1 2	2	Replace all existing single-pane wood or aluminum windows to be <i>U</i> -value as specified in Table N1101.2.					
	3	3	Insulate the floor system as specified in Table N1101.2 and install 100 percent of permanently installed					
		4	lighting fixtures as CFL or linear fluorescent or min. efficacy of 40 lumens per watt as specified in Test the entire dwelling with blower door and exhibit no more than 6.0 air changes per hour @ 50					
		5	Seal and performance test the duct system.					
	(6	Replace existing 78 percent AFUE or less gas furnace with a 92 percent AFUE or greater system.					
	+	7		ace existing electric radiant space heaters with a ductless mini-split system with a minimum HSPF of				
		8	Replace existing electric forced air furnace with an air source heat pump with a minimum HSPF of 9.5.					
9 Replace existing water heater with a water heater meeting Conservation Measure D. [Table N1101.(2)] BLE N1101.1(2) ADDITIONAL MEASURES								
				High efficiency walls				
Envelope Enhancement Measures (Select One)		1		Exterior walls U-0.045/R-21 cavity insulation + R-5 continuous				
				Upgraded features				
		2		Exterior walls $\Box U$ -0.057/R-23 intermediate or \Box R-21 advanced,				
	<u>}</u>			Framed floors U-0.026/R-38, and				
	, ,							
	2			Windows — U-0.28 (average UA)				
(Se	5	3		Upgraded features Exterior Walls □U-0.055/R-23 intermediate or □R-21 advanced,				
es Ses	}							
Ins	5			Flat ceiling ^e U-0.017/R-60, and				
e e	2			Framed floors U-0.026/R-38				
≥	<u>.</u>	4		Super Insulated Windows and Attic or Framed Floors				
en Len	2		ı 🗆	Windows U-0.22 (Triple Pane Low-e), and				
ıncem		4		□Flat ceiling ^e U-0.017/R-60 or				
				□Framed floors U-0.026/R-38				
<u> </u>	•		5 🗆	Air sealing home and ducts				
lope Er	j)	5		Mandatory air sealing of all wall coverings at top plate and air sealing checklist ^f , and				
	2			Mechanical whole-building ventilation system with rates meeting M1507.3 or ASHRAE 62.2,				
]Ve				and				
ш	j			□All ducts and air handlers contained within building envelope ^d or				
		6		High efficiency thermal envelope UA ^g				
_	-		_	Purposed UA is 8% lower than the code UA				
			Τ	High officional HVAC systems				
		A	A 🗆	High efficiency HVAC system ^a				
sure				□Gas-fired furnace or boiler AFUE 94%, or				
				□Air-source heat pump HSPF of 9.5/15.00 SEER cooling, or				
				□Ground source heat pump COP 3.5 or Energy Star rated				
Mea	One)	ne)		Ducted HVAC systems within conditioned space				
Conservation Measure	0 ;	В		All ducts and air handlers contained within building enveloped				
	<u>8</u>	(Select		Cannot he combined with Measure 5				
	S)			Ductless heat pump				
				Ductless heat pump HSPF 10.0 in primary zone of dwelling				
		D	,	High efficiency water heater ^c				
				□Natural gas/propane, water heater UEF 0.85 OR				

 \square Electric heat pump water heater Tier 1 Northern Climate Specification Product

1 square foot = 0.093 m, 1 watt per square foot = 10.8 W/m.

- ^{a.} Appliances located within the building thermal envelope shall have sealed combustion air installed. Combustion air shall be ducted directly from the outdoors.
- b. All duct joints and seams sealed with listed mastic; tape is only allowed at appliance or equipment connections (for service and replacement). Meet sealing criteria of Performance Tested Comfort Systems program administered by the Bonneville Power Administration (BPA).

- ^{c.} Residential water heaters less than 55 gallon storage volume.

 ^{d.} A total of 5 percent of an HVAC system's ductwork shall be permitted to be located outside of the conditioned space. Ducts located outside the conditioned space shall have insulation installed as required in this code.

 ^{e.} The maximum vaulted ceiling surface area shall not be greater than 50 percent of the total heated space floor area unless vaulted area
- has a *U*-factor no greater than U-0.026.

 Continuous air barrier. Additional requirements for sealing of all interior vertical wall covering to top plate framing. Sealing with foam gasket, caulk or other approved sealant listed for sealing wall covering material to structural material (example: gypsum board to wood stud framing).
- Fable N1104.1(1) Standard base case design, Code UA shall be at least 8 percent less than the Proposed UA. Buildings with fenestration less than 15 percent of the total vertical wall area may adjust the code UA to have 15 percent of the wall area as

